PTO-1390 (Rev. 07-2005)
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Officer the Paperwork Reduction Act of 1995, no person	na are required to respond to a concessor or time						
TRANSMITTAL LETTER TO	ATTORNEY'S DOCKET NUMBER 3749-0111PUS1						
DESIGNATED/ELECTED	U.S. APPLICATION NO HE KNOWN SEED CFR 1.5)						
INTERNATIONAL APPLICATION NO.	INTERNATIONAL FILING DATE	PRIGRITY DATE CLAIMED					
PCT/JP2004/016297	4 November 2004	18 November 2003					
TITLE OF INVENTION	F GENE METHOD FOR PREPAR	RING HYDROXYLATED CAROTENOID,					
AND NOVEL GERANYLGERANYL PYR	ROPHOSHATE SYNTHASE						
APPLICANT(S) FOR DO/EO/US Yasuhiro NISHIDA; Kyoko ADACHI; Hiro	ooki KASAI: Voshikazu SHIZURI: (Sadao KOMEMUSHI and Norihiko					
MISAWA							
Applicant herewith submits to the United Stat	tes Designated/Elected Office (DO/EO/	(US) the following items and other information:					
1. x This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.							
	2. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.						
This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.							
4. The US has been elected (Article 3	1).						
5. X A copy of the International Applicati	ion as filed (35 U.S.C. 371 (c)(2))						
a. x is attached hereto (required onl	ly if not communicated by the Internation	onal Bureau).					
b. has been communicated by the International Bureau.							
c. is not required, as the application	on was filed in the United States Recei	ving Office (RO/US).					
6. X An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).							
a. x is attached hereto.							
b. has been previously submitted under 35 U.S.C. 154(d)(4).							
7. x Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))							
a. are attached hereto (required only if not communicated by the International Bureau).							
b. have been communicated by the International Bureau.							
c. have not been made; however, the time limit for making such amendments has NOT expired.							
d. x have not been made and will not be made.							
	the amendments to the claims under P	CT Article 19 (35 U.S.C. 3/1(c)(3)).					
9. An oath or declaration of the invent		_					
An English language translation of t Article 36 (35 U.S.C. 371(c)(5)).	the annexes of the International Prelim	inary Examination Report under PCT					
Items 11 to 20 below concern docun							
11. x An Information Disclosure Statem							
12. An assignment document for record	ding. A separate cover sheet in compli	ance with 37 CFR 3.28 and 3.31 is included.					
13. x A preliminary amendment.							
14. x An Application Data Sheet under 3	37 CFR 1.76.						
15. A substitute specification.							
16. A power of attorney and/or change							
17. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 – 1.825.							
	temational Application under 35 U.S.0						
19. A second copy of the English lang	uage translation of the international a	pplication under 35 U.S.C. 154(d)(4).					

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U.S. APPLICATION NO (Ekpown see 37 CFR) 1.89			INTERNATIONAL APPLICATION NO. PCT/JP2004/016297			ATTORNEY'S DOCKET NUMBER 3749-0111PUS1					
20. X Other items or information: Return Receipt Postcard PCT/ISA/210; PCT/IB/304; Ten Sheets of Formal Drawings and Twenty-five Sheets of Sequence Listings											
The fol	llowing fr	ees hav	e been si	ubmitte				CALC	ULATIO	.10	PTO USEONLY
	-))		\$300	\$	300.		PIU USEUNE.
22. x Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)						\$	200.	00			
23. X Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)						\$ 400.00					
			2 and 23 =					\$	900.	00	
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.											
Total Sheets	Extra Sh	neets			additional 50 or fraction up to a whole number)		RATE			1	
87 -100=		/50 =					x \$250.00	\$		1	
					, examination fee, or the (37 CFR 1.492(h)).	oat	h or declaration	\$	130.0	00	
CLAIMS			MBER FILE		NUMBER EXTRA		RATE				
Total clain			7 - 20 =			x			0.0		
Independent			6 - 3 =				200.00		600.0	00	
MULTIPLE DEPENDENT CLAIM(S) (if applicable) +										_	· · · · · · · · · · · · · · · · · · ·
TOTAL OF ABOVE CALCULATIONS =						VE CALCULATIONS =	\$	1,630.0	00		
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.											
SUBTOTAL =							\$	1,630.0	00		
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).						ns from the earliest	\$				
TOTAL NATIONAL FEE =						TAL NATIONAL FEE =	\$		1,	,630.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +						\$					
								\$			
					тот	TAL	FEES ENCLOSED =	\$	\$ 1,630.00		
					Amoun refunde						
					Amount		\$				

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AP20REE OFET/PTO 15 MAY 2006

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a. X A check in the amount of \$1,630.00 to cover the a	above fees is enclosed.
b. Please charge my Deposit Account No. 02-2448 in the and A duplicate copy of this sheet is enclosed.	amount of \$ to cover the above fees.
c. X The Commissioner is hereby authorized to charge any additional fer Account No. 02-2448 . A duplicate copy of this sh	
d. Fees are to be charged to a credit card. WARNING: Information should not be included on this form. Provide credit card inform	nation and authorization on PTO-2038
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not be filed an granted to restore the International Application to pending sta	een met, a petition to revive (37 CFR 1.137(a) or (b)) must be atus.
SEND ALL CORRESPONDENCE TO:	SIGNATURE
CUSTOMER NUMBER: 02292	Maniferna Associates DLD
May 15, 2006 /smt	MaryAnne Armstrong, Ph.D. NAME
	40,069 REGISTRATION NUMBER
	REGISTRATION NUMBER
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